

# Weekly Report

Lu Junhua

2015 年 10 月 18 日

I had prepared and made a report on paper “egoSlider: Visual Analysis of Egocentric Network Evolution”. It’s a paper on visualization of large amount of ego-networks. In my opinion, this paper has the following merits:

- The system they designed enable users explore the ego-networks from 3 different levels: micro, meso and macro. While most previous efforts on visualize ego-networks didn’t achieve this goal.
- They propose a matrices on graph similarity, which can be utilized in our projects too.
- The structure of the paper is clear and complete. Like questions, tasks and in in the later part on how to solve them. In visual design, they records all the design alternatives to describe questions they came across while designing. It is worth learning.

Besides I have all the communication networks based on the chatlog of buy\_shizhuang players. They are recorded in .gml files, which can be easily re-extraction by python networkx package. While doing this, there are 3 steps:

- install numpy, decorate, and networkx on python using pip.
- Counting times between two different ids, direct(AB and BA considered as 2) and undirect(AB=BA). Although there exists a command that can convert direct graph to undirect graph, it is low efficient.
- write them into .gml files and save them.

You’d better check the data manually to see if there are any mistakes on undirect graphs.

Next week, I mainly focused on writing a description of data and tells Dingke Kong what we need and fetch them later. And related papers are under collecting.